**Life Science The Evolution of Living Things ( Ch. 7 Outline)**

***AS YOU READ, RESPOND TO THE FOLLOWING:***

*Vocabulary*: **Define in your own words:**

Adaptation-

Evolution-

Species-

Speciation-

Selective Breeding-

Natural Selection-

Generation time-

***Respond to the following questions/prompts:***

Explain how comparing organisms can provide evidence about common ancestors. (2 pts)

What are two kinds of evidence that support the theory of evolution? Explain a bit about or provide an example of each source of evidence. (4 pts)

How do genetics relate to evolution? Explain. (2 pts)

What are the four parts of Darwin's theory of natural selection? Explain a bit about each part of Darwin's theory of natural selection. (4 pts)

Explain the process of speciation. In other words, how does one species "turn into" a new species? Explain the three major events and how they encourage speciation. (6 pts)

***ABOUT THE READING:***

Write three things that you learned about Evolution and/or Natural Selection:

***Make sure to write a full sentence.***

*Example: I learned that when discussing the idea of evolution, it generally applies to species of organisms changing over a large period of time.*

***1.***

***2.***

***3.***

**ASSIGNED WORK:**

(Worth 10 pts total; 2 pts for each question)

Report should be in paragraph form with complete sentences.

Research a dog breed or your choice and write a brief report on the following questions:

1. What is the origin of the dog breed?
2. What traits were selectively bred for with this dog? Why?
3. Does the dog suffer from any genetic disorders or diseases/conditions that result from its breeding (over-breeding or inbreeding)?
4. What is the most closely related breed of dog to your chosen breed of dog?
5. Why was this dog interesting to you?